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NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and
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NEWS 17 JAN 26 CA/CAPLUS - Expanded patent coverage to include the Russian
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NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
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=> s epidural? and (drug delivery)
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L1 1975 EPIDURAL? AND (DRUG DELIVERY)

=> s l1 and catheter?
 L2 1121 L1 AND CATHETER?

=> s l2 and electrode#
 L3 497 L2 AND ELECTRODE#

=> s l3 and (potential or gradient)
 L4 464 L3 AND (POTENTIAL OR GRADIENT)

=> s l4 and iontophore?
 L5 13 L4 AND IONTOPHORE?

=> d l5 1-3 ibib abs

L5 ANSWER 1 OF 13 USPATFULL on STN
 ACCESSION NUMBER: 2004:145443 USPATFULL
 TITLE: Method and system for spinal cord stimulation prior to
 and during a medical procedure
 INVENTOR(S): Hill, Michael R.S., Minneapolis, MN, UNITED STATES
 Jahns, Scott E., Hudson, WI, UNITED STATES
 Keogh, James R., Maplewood, MN, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2004111118 | A1 | 20040610 |
| APPLICATION INFO.: | US 2003-716810 | A1 | 20031119 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2002-215443, filed on 9 Aug | | |

2002, GRANTED, Pat. No. US 6690973 Division of Ser. No.
US 2000-669960, filed on 26 Sep 2000, GRANTED, Pat. No.
US 6487446

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MEDTRONIC, INC., 710 MEDTRONIC PARKWAY NE, MS-LC340,
MINNEAPOLIS, MN, 55432-5604

NUMBER OF CLAIMS: 49
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1297

AB A method of performing a medical procedure, such as surgery, is
provided. The spinal cord is stimulated in order to control at least one
physiological function. The medical procedure is performed and
stimulation of the spinal cord is stopped.

L5 ANSWER 2 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2004:83671 USPATFULL
TITLE: Method and device for enhanced delivery of a
biologically active agent through the spinal spaces
into the central nervous system of a mammal
INVENTOR(S): Lerner, Eduard N., Amsterdam, NETHERLANDS
PATENT ASSIGNEE(S): Intrabrain NV, Curacao, NETHERLANDS (non-U.S.
corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2004064127 | A1 | 20040401 |
| APPLICATION INFO.: | US 2003-687816 | A1 | 20031020 (10) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 2002-50183, filed on 18 Jan 2002, PENDING Continuation-in-part of Ser. No. US 1998-197133, filed on 20 Nov 1998, GRANTED, Pat. No. US 6410046 Continuation-in-part of Ser. No. US 1998-77123, filed on 20 May 1998, GRANTED, Pat. No. US 6678553 Continuation-in-part of Ser. No. WO 1996-EP5086, filed on 19 Nov 1996, UNKNOWN | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: NIXON & VANDERHYE, PC, 1100 N GLEBE ROAD, 8TH FLOOR,
ARLINGTON, VA, 22201-4714

NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 926

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A delivery method and implantable apparatus that allows for controlled,
enhanced and (pre)-programmable administration of a biologically active
agent into the spinal structures and/or the brain via the
epidural space of a mammal, particularly of a human being and
including a feedback regulated delivery method and apparatus
specifically in the treatment of neurological diseases and chronic pain.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2003:260405 USPATFULL
TITLE: Multi-probe system
INVENTOR(S): Kucharczyk, John, Minneapolis, MN, United States
Gillies, George T., Charlottesville, VA, United States
PATENT ASSIGNEE(S): University of Virginia Patent Foundation,
Charlottesville, VA, United States (U.S. corporation)
Regents of the University of Minnesota, Minneapolis,
MN, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 6626902 | B1 | 20030930 |
| APPLICATION INFO.: | US 2000-548110 | | 20000412 (9) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | GRANTED | | |
| PRIMARY EXAMINER: | Gibson, Roy D. | | |
| LEGAL REPRESENTATIVE: | Mark A. Litman & Assoc. P.A. | | |
| NUMBER OF CLAIMS: | 21 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 2 Drawing Figure(s); 2 Drawing Page(s) | | |
| LINE COUNT: | 1417 | | |

AB A multi-lumen, multi-functional **catheter** system comprising a plurality of axial lumens, at least one lumen supporting a functionality other than material delivery and material removal.

=> d 15 4-13 ibib abs

L5 ANSWER 4 OF 13 USPATFULL on STN
 ACCESSION NUMBER: 2003:140963 USPATFULL
 TITLE: Antidepressants and their analogues as long-acting local anesthetics and analgesics
 INVENTOR(S): Wang, Ging Kuo, Westwood, MA, UNITED STATES
 Gerner, Peter, Weston, MA, UNITED STATES
 Verrecchia, Donald K., Winchester, MA, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 2003096805 | A1 | 20030522 |
| APPLICATION INFO.: | US 2002-117708 | A1 | 20020404 (10) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2001-965138, filed on 26 Sep 2001, PENDING | | |

| | NUMBER | DATE |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | WO 2001-US30268 | 20010926 |
| | US 2000-235432P | 20000926 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | Edward R. Gates, Esq., Chantal Morgan D'Apuzzo, Ph.D., Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA, 02210 | |
| NUMBER OF CLAIMS: | 78 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 13 Drawing Page(s) | |
| LINE COUNT: | 1402 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods and compositions of antidepressants and analogs thereof for inducing local long-lasting anesthesia and analgesia are provided. The methods and compositions are useful for alleviating acute and chronic pain, particularly useful for treating a localized pain.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 13 USPATFULL on STN
 ACCESSION NUMBER: 2002:338467 USPATFULL
 TITLE: Method and system for spinal cord stimulation prior to and during a medical procedure
 INVENTOR(S): Hill, Michael R.S., Minneapolis, MN, UNITED STATES
 Jahns, Scott E., Hudson, WI, UNITED STATES
 Keogh, James R., Maplewood, MN, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 2002193843 | A1 | 20021219 |
| | US 6690973 | B2 | 20040210 |
| APPLICATION INFO.: | US 2002-215443 | A1 | 20020809 (10) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 2000-669960, filed on 26 Sep 2000, PENDING | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | Daniel W. Latham, Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN, 55432 | | |
| NUMBER OF CLAIMS: | 27 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 4 Drawing Page(s) | | |
| LINE COUNT: | 1172 | | |
| AB | A method of performing a medical procedure, such as surgery, is provided. The spinal cord is stimulated in order to control at least one physiological function. The medical procedure is performed and stimulation of the spinal cord is stopped. | | |

L5 ANSWER 6 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2002:323509 USPATFULL
 TITLE: Methods and apparatus for enhanced and controlled delivery of a biologically active agent into the central nervous system of a mammal
 INVENTOR(S): Lerner, Eduard N., Amsterdam, NETHERLANDS
 PATENT ASSIGNEE(S): Intrabrain International NV, Curacao, NETHERLANDS (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 2002183683 | A1 | 20021205 |
| APPLICATION INFO.: | US 2002-51817 | A1 | 20020118 (10) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1998-197133, filed on 20 Nov 1998, GRANTED, Pat. No. US 6410046 Continuation of Ser. No. WO 1995-EP9605086, filed on 19 Nov 1995, UNKNOWN | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | PERKINS, SMITH & COHEN LLP, ONE BEACON STREET, 30TH FLOOR, BOSTON, MA, 02108 | | |
| NUMBER OF CLAIMS: | 31 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 16 Drawing Page(s) | | |
| LINE COUNT: | 1321 | | |
| AB | Disclosed are invasive and non-invasive central nervous system (CNS) drug delivery methods and devices for use in these methods that essentially circumvent the blood-brain barrier. More specifically, the disclosed methods and devices utilize iontophoresis as delivery technique that allows for enhanced delivery of a biologically active agent into the CNS of a mammal as well as for (pre)-programmable and controlled transport. | | |

L5 ANSWER 7 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2002:311794 USPATFULL
 TITLE: Method and system for spinal cord stimulation prior to and during a medical procedure
 INVENTOR(S): Hill, Michael R.S., Minneapolis, MN, United States
 Jahns, Scott E., Hudson, WI, United States
 Keogh, James R., Maplewood, MN, United States
 PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S.)

corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 6487446 | B1 | 20021126 |
| APPLICATION INFO.: | US 2000-669960 | | 20000926 (9) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | GRANTED | | |
| PRIMARY EXAMINER: | Wayner, William | | |
| LEGAL REPRESENTATIVE: | Berry, Thomas G., Latham, Daniel W. | | |
| NUMBER OF CLAIMS: | 14 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 4 Drawing Figure(s); 4 Drawing Page(s) | | |
| LINE COUNT: | 1219 | | |

AB A method of performing a medical procedure, such as surgery, is provided. The spinal cord is stimulated in order to control at least one physiological function. The medical procedure is performed and stimulation of the spinal cord is stopped.

L5 ANSWER 8 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2002:179185 USPATFULL
TITLE: Tricyclic antidepressants and their analogues as long-acting local anesthetics and analgesics
INVENTOR(S): Wang, Ging Kuo, Westwood, MA, UNITED STATES
Gerner, Peter, Weston, MA, UNITED STATES
PATENT ASSIGNEE(S): The Brigham and Woman's Hospital, Inc. (U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2002094975 | A1 | 20020718 |
| | US 6545057 | B2 | 20030408 |
| APPLICATION INFO.: | US 2001-965138 | A1 | 20010926 (9) |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2000-235432P | 20000926 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | Edward R. Gates, Esq., Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA, 02210 | |
| NUMBER OF CLAIMS: | 32 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 11 Drawing Page(s) | |
| LINE COUNT: | 1006 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods and compositions of tricyclic antidepressants for inducing local long-lasting anesthesia and analgesia are provided. The methods and compositions are useful for alleviating acute and chronic pain, particularly useful for treating a localized pain.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 9 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2002:157970 USPATFULL
TITLE: Method and device for enhanced delivery of a biologically active agent through the spinal spaces into the central nervous system of a mammal
INVENTOR(S): Lerner, Eduard N., Amsterdam, NETHERLANDS
PATENT ASSIGNEE(S): Intrabrain International NV, Curacao, NETHERLANDS (non-U.S. corporation)

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

PATENT INFORMATION: US 2002082583 A1 20020627
 APPLICATION INFO.: US 2002-50183 A1 20020118 (10)
 RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-197133, filed
 on 20 Nov 1998, PENDING Continuation of Ser. No. WO
 1995-EP9605086, filed on 19 Nov 1995, UNKNOWN

DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: PERKINS, SMITH & COHEN LLP, ONE BEACON STREET, 30TH
 FLOOR, BOSTON, MA, 02108

NUMBER OF CLAIMS: 12
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 4 Drawing Page(s)
 LINE COUNT: 927

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A delivery method and implantable apparatus that allows for controlled,
 enhanced and (pre)-programmable administration of a biologically active
 agent into the spinal structures and/or the brain via the
epidural space of a mammal, particularly of a human being and
 including a feedback regulated delivery method and apparatus
 specifically in the treatment of neurological diseases and chronic pain.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 10 OF 13 USPATFULL on STN

ACCESSION NUMBER: 1999:45828 USPATFULL
 TITLE: Method and apparatus for alleviating cardioversion
 shock pain by delivering a bolus of analgesic
 INVENTOR(S): Elsberry, Dennis D., New Hope, MN, United States
 Mehra, Rahul, Stillwater, MN, United States
 Otten, Lynn M., Blaine, MN, United States
 Rise, Mark T., Monticello, MN, United States
 Thompson, David L., Fridley, MN, United States
 PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S.
 corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 5893881 | | 19990413 |
| APPLICATION INFO.: | US 1997-920645 | | 19970829 (8) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1995-525995, filed on 8 Sep 1995, now patented, Pat. No. US 5662689, issued on 2 Sep 1997 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Lateef, Marvin M. | | |
| ASSISTANT EXAMINER: | Layno, Carl H. | | |
| LEGAL REPRESENTATIVE: | Duthler, Reed A., Patton, Harold R. | | |
| NUMBER OF CLAIMS: | 15 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 9 Drawing Figure(s); 9 Drawing Page(s) | | |
| LINE COUNT: | 1496 | | |

AB An implantable cardioverter for providing cardioversion electrical
 energy to at least one chamber of a patient's heart in need of
 cardioversion and applying a pain alleviating therapy at an appropriate
 site in the patient's body prior to or in conjunction with the delivery
 of the cardioversion energy to the heart chamber to alleviate propagated
 pain perceived by the patient. The combined cardioversion and pain
 alleviating therapies are preferably realized in a single implantable,
 multiprogrammable medical device or separate implantable cardioversion
 and pain control devices with means for communicating operating and
 status commands between the devices through the patient's body.

L5 ANSWER 11 OF 13 USPATFULL on STN

ACCESSION NUMBER: 1998:121898 USPATFULL
TITLE: Method and apparatus for alleviating cardioversion shock pain
INVENTOR(S): Elsberry, Dennis D., New Hope, MN, United States
Mehra, Rahul, Stillwater, MN, United States
Otten, Lynn M., Blaine, MN, United States
Rise, Mark T., Monticello, MN, United States
Thompson, David L., Fridley, MN, United States
PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 5817131 | | 19981006 |
| APPLICATION INFO.: | US 1997-813244 | | 19970307 (8) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1995-525995, filed on 8 Sep 1995, now patented, Pat. No. US 5662689 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Kamm, William E. | | |
| ASSISTANT EXAMINER: | Layno, Carl H. | | |
| LEGAL REPRESENTATIVE: | Duthler, Reed A., Patton, Harold R. | | |
| NUMBER OF CLAIMS: | 26 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 9 Drawing Figure(s); 9 Drawing Page(s) | | |
| LINE COUNT: | 1595 | | |

AB An implantable cardioverter for providing cardioversion electrical energy to at least one chamber of a patient's heart in need of cardioversion and applying a pain alleviating therapy at an appropriate site in the patient's body prior to or in conjunction with the delivery of the cardioversion energy to the heart chamber to alleviate propagated pain perceived by the patient. The combined cardioversion and pain alleviating therapies are preferably realized in a single implantable, multiprogrammable medical device or separate implantable cardioversion and pain control devices with means for communicating operating and status commands between the devices through the patient's body.

L5 ANSWER 12 OF 13 USPATFULL on STN

ACCESSION NUMBER: 97:77966 USPATFULL
TITLE: Method and apparatus for alleviating cardioversion shock pain
INVENTOR(S): Elsberry, Dennis D., New Hope, MN, United States
Mehra, Rahul, Stillwater, MN, United States
Otten, Lynn M., Blaine, MN, United States
Rise, Mark T., Monticello, MN, United States
Thompson, David L., Fridley, MN, United States
PATENT ASSIGNEE(S): Medtronic, Inc., Minneapolis, MN, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 5662689 | | 19970902 |
| APPLICATION INFO.: | US 1995-525995 | | 19950908 (8) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Kamm, William E. | | |
| ASSISTANT EXAMINER: | Layno, Carl H. | | |
| LEGAL REPRESENTATIVE: | Duthler, Reed A., Patton, Harold R. | | |
| NUMBER OF CLAIMS: | 56 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 9 Drawing Figure(s); 9 Drawing Page(s) | | |
| LINE COUNT: | 1685 | | |

AB An implantable cardioverter for providing cardioversion electrical energy to at least one chamber of a patient's heart in need of cardioversion and applying a pain alleviating therapy at an appropriate site in the patient's body prior to or in conjunction with the delivery of the cardioversion energy to the heart chamber to alleviate propagated pain perceived by the patient. The combined cardioversion and pain alleviating therapies are preferably realized in a single implantable, multi-programmable medical device or separate implantable cardioversion and pain control devices with means for communicating operating and status commands between the devices through the patient's body.

L5 ANSWER 13 OF 13 USPATFULL on STN

ACCESSION NUMBER: 97:17918 USPATFULL

TITLE: Compositions and methods for enhanced drug delivery

INVENTOR(S): Hale, Ron L., Woodside, CA, United States
Lu, Amy, Los Altos, CA, United States
Solas, Dennis, San Francisco, CA, United States
Selig, Harold E., Belmont, CA, United States
Oldenburg, Kevin R., Fremont, CA, United States
Zaffaroni, Alejandro C., Atherton, CA, United States

PATENT ASSIGNEE(S): Affymax Technologies N.V., Middlesex, England (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 5607691 | | 19970304 |
| APPLICATION INFO.: | US 1995-449188 | | 19950524 (8) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1993-164293, filed on 9 Dec 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-77296, filed on 14 Jun 1993, now abandoned which is a continuation-in-part of Ser. No. US 1992-898219, filed on 12 Jun 1992, now abandoned And a continuation-in-part of Ser. No. US 1993-9463, filed on 27 Jan 1993, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Levy, Neil S. | | |
| LEGAL REPRESENTATIVE: | Stevens, Lauren L. | | |
| NUMBER OF CLAIMS: | 5 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 5349 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods of delivering pharmaceutical agents across membranes, including the skin layer or mucosal membranes of a patient. A pharmaceutical agent is covalently bonded to a chemical modifier, via a physiologically cleavable bond, such that the membrane transport and delivery of the agent is enhanced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.